

# Matthias Breuning

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

52 papers	3,488 citations	23 h-index	59 g-index
68 ext. papers	3,870 ext. citations	5.2 avg, IF	4.98 L-index

#	Paper	IF	Citations
52	Atroposelective synthesis of axially chiral biaryl compounds. <i>Angewandte Chemie - International Edition</i> , <b>2005</b> , 44, 5384-427	16.4	1008
51	Atroposelective total synthesis of axially chiral biaryl natural products. <i>Chemical Reviews</i> , <b>2011</b> , 111, 563-639	68.1	847
50	Atropselektive Synthese axial-chiraler Biaryle. <i>Angewandte Chemie</i> , <b>2005</b> , 117, 5518-5563	3.6	342
49	The Lactone Concept: An Efficient Pathway to Axially Chiral Natural Products and Useful Reagents. <i>Synthesis</i> , <b>1999</b> , 1999, 525-558	2.9	197
48	Resolution of racemic carboxylic acid derivatives by Ti-TADDOLate mediated esterification reactions – a general method for the preparation of enantiopure compounds. <i>Tetrahedron</i> , <b>1997</b> , 53, 7539-7556	2.4	97
47	The lactone concept – a novel approach to the metal-assisted atroposelective construction of axially chiral biaryl systems. <i>Journal of Organometallic Chemistry</i> , <b>2002</b> , 661, 31-47	2.3	86
46	The directed synthesis of axially chiral ligands, reagents, catalysts, and natural products through the lactone methodology – <i>Journal of Organometallic Chemistry</i> , <b>2002</b> , 661, 49-65	2.3	69
45	Catalytic Enantioselective Diels-Alder Reactions of 1,4-Quinone Monoketals. <i>Organic Letters</i> , <b>2001</b> , 3, 1559-1562	6.2	64
44	Enantioselective addition of diethylzinc to aldehydes using novel axially chiral 2-aminomethyl-1-(2'-hydroxyphenyl)naphthalene catalysts [1]. <i>Tetrahedron: Asymmetry</i> , <b>1998</b> , 9, 667-679		57
43	Atropisomerization Barriers of Configurationally Unstable Biaryl Compounds, Useful Substrates for Atroposelective Conversions to Axially Chiral Biaryls – <i>Journal of Organic Chemistry</i> , <b>2000</b> , 65, 722-728	4.2	53
42	Chiral 2-endo-substituted 9-oxabispindines: novel ligands for enantioselective copper(II)-catalyzed Henry reactions. <i>Chemistry - A European Journal</i> , <b>2009</b> , 15, 12764-9	4.8	52
41	Synthesis of enantiopure axially chiral C3-symmetric tripodal ligands and their application as catalysts in the asymmetric addition of dialkylzinc to aldehydes. <i>Journal of Organic Chemistry</i> , <b>2003</b> , 68, 6859-63	4.2	44
40	Chiral Bispindines. <i>Synthesis</i> , <b>2008</b> , 2008, 2841-2867	2.9	38
39	Efficient One-Pot Synthesis of Enantiomerically Pure 2-(Hydroxymethyl)morpholines. <i>European Journal of Organic Chemistry</i> , <b>2007</b> , 2007, 2100-2106	3.2	37
38	The First Modular Route to Core-Chiral Bispidine Ligands and Their Application in Enantioselective Copper(II)-Catalyzed Henry Reactions. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 12488-500	4.8	32
37	Atropo-enantioselective synthesis of an axially chiral C1-symmetric phosphine ligand and its application in the asymmetric hydrosilylation of styrenes. <i>Tetrahedron: Asymmetry</i> , <b>1999</b> , 10, 3025-3031		31
36	A flexible route to chiral 2-endo-substituted 9-oxabispindines and their application in the enantioselective oxidation of secondary alcohols. <i>Journal of Organic Chemistry</i> , <b>2009</b> , 74, 1407-10	4.2	28

35	Cooperative Reactivity of Unsupported Early/Late Heterobimetallics: Ring Opening and Subsequent Decarbonylation of Biaryllactones. <i>Organometallics</i> , <b>1998</b> , 17, 1643-1645	3.8	27
34	(2S,5R)-2-Methylaminomethyl-1-methyl-5-phenylpyrrolidine, a chiral diamine ligand for copper(II)-catalysed Henry reactions with superb enantiocontrol. <i>Chemical Communications</i> , <b>2014</b> , 50, 6623-5	5.8	25
33	Synthesis of Axially Chiral Biaryls by Atropo-Diastereoselective Cleavage of Configurationally Unstable Biaryl Lactones with Menthol-Derived O-Nucleophiles. <i>European Journal of Organic Chemistry</i> , <b>1999</b> , 1999, 3047-3055	3.2	25
32	Atropo-Diastereoselective Cleavage of Configurationally Unstable Biaryl Lactones with Alkali Metal Activated Primary 1-Arylethylamines. <i>Chemistry - A European Journal</i> , <b>1999</b> , 5, 3029-3038	4.8	25
31	Biaryl hydroxy aldehydes as intermediates in the metal-assisted atropo-enantioselective reduction of biaryl lactones: Structures and aldehyde-lactol equilibria. <i>Tetrahedron</i> , <b>1998</b> , 54, 10677-10690	2.4	24
30	The Lactone method/enantioselective preparation of novel P,N-biaryl ligands and their use in the synthesis of the biaryl alkaloids, ancistrotanzanine B and ancistroealaine A. <i>Tetrahedron</i> , <b>2004</b> , 60, 4349-4360	2.4	24
29	Unexpected activity of novel 9-oxabispidine zinc complexes in lactide polymerization. <i>Inorganic Chemistry Communication</i> , <b>2010</b> , 13, 369-371	3.1	20
28	The Atropo-Enantioselective Reduction of Configurationally Unstable Biaryl Hydroxy Aldehydes - A Novel Approach to Axially Chiral Biaryls. <i>Synlett</i> , <b>1998</b> , 1998, 634-636	2.2	20
27	Atropo-enantioselective reduction of configurationally unstable biaryl lactones with BINAL-H. <i>Tetrahedron: Asymmetry</i> , <b>1999</b> , 10, 385-390		20
26	In-depth structure/Selectivity investigations on asymmetric, copper-catalyzed oxidative biaryl coupling in the presence of 5-cis-substituted prolinamines. <i>Catalysis Science and Technology</i> , <b>2015</b> , 5, 2215-2226	5.5	19
25	The ortho-hydroxy-ortho?-formyl biaryl/lactol equilibrium: Quantumchemical studies on structure and dynamics. <i>Tetrahedron</i> , <b>1998</b> , 54, 10691-10698	2.4	19
24	A novel one-pot procedure for the stereoselective synthesis of alpha-hydroxy esters from ortho esters. <i>Organic Letters</i> , <b>2009</b> , 11, 4032-5	6.2	18
23	Evaluation of 5-cis-Substituted Prolinamines as Ligands in Enantioselective, Copper-Catalyzed Henry Reactions. <i>ChemCatChem</i> , <b>2016</b> , 8, 1846-1856	5.2	14
22	Atropo-enantioselective synthesis of a C3-symmetric tripodal ligand with three axially chiral biaryl subunits. <i>Tetrahedron: Asymmetry</i> , <b>2003</b> , 14, 2225-2228		14
21	Enantioselective total synthesis of the tricyclic 9-oxabispidine (1R,2S,9S)-11-methyl-13-oxa-7,11-diazatricyclo[7.3.1.0 <sup>2,7</sup> ]tridecane. <i>Tetrahedron: Asymmetry</i> , <b>2008</b> , 19, 1978-1983		12
20	Enantioselective Synthesis of 2-Phenyl-9-oxabispidines. <i>Synthesis</i> , <b>2007</b> , 2007, 1702-1706	2.9	11
19	Flexible and Modular Syntheses of Enantiopure 5-cis-Substituted Prolinamines from L-Pyroglutamic Acid. <i>Synthesis</i> , <b>2015</b> , 47, 575-586	2.9	10
18	The Enantioselective Total Synthesis of Bisquinolizidine Alkaloids: A Modular "Inside-Out" Approach. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 2432-2435	16.4	10

17	5-Substituted Derivatives of the Tricyclic (+)-Sparteine Surrogate in the Enantioselective Lithiation/Stannylation of an O-Alkyl Carbamate. <i>European Journal of Organic Chemistry</i> , <b>2013</b> , 2013, 7575-7582	3.2	10
16	Theoretical and spectroscopic studies on the conformational equilibrium of 9-oxabispindines in solution. <i>Journal of Molecular Structure</i> , <b>2011</b> , 1005, 178-185	3.4	9
15	First asymmetric synthesis of a C2-symmetric 2-endo,6-endo-disubstituted bispidine. <i>Tetrahedron: Asymmetry</i> , <b>2007</b> , 18, 1410-1418		9
14	Convenient Multigram Synthesis of (R)-Homopiperic Acid Methyl Ester. <i>Synthesis</i> , <b>2006</b> , 2006, 1386-1389		6
13	Enantioselective borane reduction of ketones catalyzed by tricyclic 1,3,2-oxazaborolidines. <i>Tetrahedron Letters</i> , <b>2016</b> , 57, 2492-2495	2	6
12	Enantioselective addition of diethylzinc to aldehydes catalyzed by 5-cis-substituted proline derivatives. <i>Tetrahedron</i> , <b>2019</b> , 75, 94-101	2.4	6
11	Synthesis and antitrypanosomal activity of 2-aminomethyl-1-(2-oxyphenyl)naphthalenes. <i>Tetrahedron</i> , <b>2004</b> , 60, 6335-6344	2.4	4
10	Unprecedented formation of stable ketene-N,O-acetals and their rearrangement under basic conditions. <i>Tetrahedron</i> , <b>2007</b> , 63, 934-940	2.4	3
9	The Hydroxylated, Tetracyclic Bisquinolizidine Alkaloids Baptifoline and Epibaptifoline: Enantioselective Synthesis and Unambiguous Assignment of their Configuration at C-13. <i>European Journal of Organic Chemistry</i> , <b>2019</b> , 2019, 895-899	3.2	3
8	Asymmetric Synthesis of (M)-2-Hydroxymethyl-1-(2-Hydroxy-4,6-Dimethylphenyl)Naphthalene via a Configurationally Unstable Biaryl Lactone72-72		3
7	Die enantioselektive Totalsynthese von Bischinolizidin-Alkaloiden: Ein modularer Inside-Out-Zugang. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 2456-2460	3.6	2
6	Thieme Chemistry Journal Awardees - Where Are They Now? Bridgehead Lithiated 9-Oxabispindines. <i>Synlett</i> , <b>2009</b> , 2009, 2749-2754	2.2	2
5	Enantioselective synthesis of tricyclic amino acid derivatives based on a rigid 4-azatricyclo[5.2.1.0]decane skeleton. <i>Beilstein Journal of Organic Chemistry</i> , <b>2009</b> , 5, 81	2.5	2
4	Structure of trans-Isoshinanolone in the Crystal and in Solution. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , <b>2004</b> , 59, 100-105	1	2
3	An Artificial Cofactor Catalyzing the Baylis-Hillman Reaction with Designed Streptavidin as Protein Host*. <i>ChemBioChem</i> , <b>2021</b> , 22, 1573-1577	3.8	2
2	Diastereodivergent Synthesis of the Quinolizidine-Indolizidine Alkaloids of the Leontidine/Camoensine Family. <i>European Journal of Organic Chemistry</i> , <b>2021</b> , 2021, 2498-2505	3.2	0
1	Titelbild: Die enantioselektive Totalsynthese von Bischinolizidin-Alkaloiden: Ein modularer Inside-Out-Zugang (Angew. Chem. 9/2018). <i>Angewandte Chemie</i> , <b>2018</b> , 130, 2283-2283	3.6	